BRUHAT BENGALURU MAHANAGARA PALIKE

Name of work: Improvements of CC Drain and Covering Slab and RE-Asphalting Excel Kalyana Mantapa road and Bharathi Theater roads in Dasarahalli Ward No 15..

Estimated Cost Rs: 60.00 Lakhs

Sl No	Description of work	No	Dimensions L	B	D	Qty	Rate	Unit	Amount
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) ,SR Rate 2018-19. P27,I 5.33								
	Bharathi Theater(W0223)	1	110.00	0.90		99.00			
	Excel kalyana mantapa(W0225)	1	138.00	0.90		124.20			
	1st cross(W0214)	2	85.00	0.90		153.00			
	2nd cross((W0212)	2	116.00	0.90		208.80			
	cross(W0227)	2	36.00	0.90		64.80			
	cross(W0229)	2	38.00	0.90		68.40			
					Total	**718.20**			
	missing slab					460.00			
	Basic Rate	105.00			Total	**258.20**	116.84	sqm	30168.09
	A.W.@ 6%	6.30							
	add tender approval @4.98%	5.54							
	Total	116.84							
2	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto .imeters and an average lift upto 0.5 m, exf-avated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as perspecifications. MORTH / Chapter SR Rate.2018-19.p158/i21.3								
	Bharathi Theater(W0223)	1	110.00	0.90	1.20	118.80			
	Excel kalyana mantapa(W0225)	1	138.00	0.90	1.20	149.04			
	1st cross(W0214)	2	85.00	0.90	0.90	137.70			
	2nd cross((W0212)	2	116.00	0.90	0.90	187.92			
	cross(W0227)	2	36.00	0.90	0.90	58.32			
	cross(W0229)	2	38.00	0.90	0.90	61.56			
	road side and kerb								
	Bharathi Theater	1	110.00	0.80	0.30	26.40			
	Excel kalyana mantapa	1	138.00	0.80	0.30	33.12			
	1st cross	1	85.00	0.80	0.30	20.40			
	2nd cross	2	116.00	0.80	0.30	55.68			
	cross	2	36.00	0.80	0.30	17.28			
					Total	**866.22**	140.22	Cum	121461.00
	Basic Rate	126.00							
	A.W.@ 6%	7.56							
	add tender approval @4.98%	6.98							
	Total	140.22							
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 (P.222/I.27.18) PWD - SR 2018-19)								
	Road side and kerb								
	Bharathi Theater	1	110.00	0.90	0.15	14.85			
	Excel kalyana mantapa	1	138.00	0.90	0.15	18.63			
	1st cross	2	85.00	0.90	0.10	15.30			
	2nd cross	2	116.00	0.90	0.10	20.88			
	cross	2	36.00	0.90	0.10	6.48			
	cross	2	38.00	0.90	0.10	6.84			
	road side and kerb	1	248.00	0.30	0.10	7.44			

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						90.42	5692.45	Cum	514711.00
	Basic Rate	5115.00							
	Add Area Weightage 6%	306.90							
	add tender approval @4.98%	283.48							
	Total	5692.45							
4	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2, (P.No.13, I.No. 4.6 of PWD SR 2018-19)								
	flaging course of								
	Bharathi Theater	2	110.00	0.15	0.80	26.40			
	Excel kalyana mantapa	2	138.00	0.15	0.80	33.12			
	1st cross	4	85.00	0.15	0.60	30.60			
	2nd cross	4	116.00	0.15	0.60	41.76			
	cross	4	36.00	0.15	0.20	4.32			
	cross	4	38.00	0.15	0.20	4.56			
	Bed concret								
	Bharathi Theater	1	110.00	0.90	0.15	14.85			
	Excel kalyana mantapa	1	138.00	0.90	0.15	18.63			
	1st cross	1	85.00	0.90	0.15	11.48			
	2nd cross	1	116.00	0.90	0.15	15.66			
	cross	1	36.00	0.90	0.15	4.86			
	cross	1	38.00	0.90	0.15	5.13			
					Total	**140.76**	6034.11	Cum	849361.00
	Basic Rate	5422.00							
	A.W.@ 6%	325.32							
	add tender approval @4.98%	300.50							
	Total	6034.11							

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	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC M20 with 20 mm** and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	qty vide item no-01 missing slab of drain					460.00			
						460.00	1695.59	sqm	779971.00
	Basic Rate	1518.10							
	A.W.@ 6%	96.90							
	add tender approval @4.98%	80.43							
	Total	1695.59							
6	Providing and fixing Pre cast solid concrete kerb stones made out of No.272.21 CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc. complete -do- of size 450x200x400 mm PWD SR 2018-19 (P-27, I								
	Bharathi Theater	1	110.00			110.00			
	Excel kalyana mantapa	1	138.00			138.00			
					Total	**248.00**			
	248.00/0.45=					**551.11**	475.48	No	262042.00
	Basic Rate	408.00							
	A.W.@ 6%	44.88							
	add tender approval @4.98%	23.68							
	Total	475.48							
7	KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications SR 2018-19 P 124 I 15.80								
	Bharathi Theater	1	110.00		0.35	38.50			
	Excel kalyana mantapa	1	138.00		0.35	48.30			
	Basic Rate	37.00			Total	**48.30**	43.12	sqm	2082.70
	A.W.@ 6%	4.07							
	add tender approval @4.98%	2.05							
	Total	43.12							
8	KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.SR 2018-19 P 124 I 15.81								
	Bharathi Theater	1	110.00		0.35	38.50			
	Excel kalyana mantapa	1	138.00		0.35	48.30			
	Basic Rate	85.00			Total	**48.30**	99.06	Sqm	4784.60
	A.W.@ 6%	9.35							
	add tender approval @4.98%	4.93							
	Total	99.06							
9	Providing and SUPPLYING Stone Dust/Grit,4.75mmto0.075.SR 2108-19 P II I0400								
	Bharathi Theater	1	110.00	7.30	0.10	80.30			
	Excel kalyana mantapa	1	138.00	4.10	0.10	56.58			
	Basic Rate	1000.00			Total	**136.88**	1112.89	Cum	152332.38
	A.W.@ 6%	60.00							
	add tender approval @4.98%	55.42							
	Total	1112.89							

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	KSRRB M400-6.2. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, spreading in uniform layers with motor grader on prepared surface, mixingby mix in place method by rotavator at OMC, and compacting with vibratory power roller to achieve the desired density, complete as per specifications. B. By Mix in Place Method. - For Grading II Material SR2018-19 P 153, I 20.6								
	Bharathi Theater	1	110.00	7.30	0.15	120.45			
	Basic Rate	1750.00			Total	**120.45**	1947.56	Cum	234583.60
	A.W.@ 6%	105.00							
	add tender approval @4.98%	96.99							
	Total	1947.56							

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	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406SR RATE 2018-19,P 155 I 20.18								
	Bharathi Theater	1	110.00	7.30	0.10	80.30			
	Excel kalyana mantapa	1	138.00	4.10	0.10	56.58			
	1st cross	1	85.00	1.50	0.10	12.75			
	2nd cross	1	116.00	1.20	0.10	13.92			
	cross	1	36.00	1.20	0.10	4.32			
	cross	1	38.00	1.20	0.10	4.56			
	Basic Rate	1888.00			Total	**172.43**	2101.14	Cum	362299.57
	A.W.@ 6%	113.28							
	add tender approval @4.98%	104.64							
	Total	2101.14							
12	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 SR 2018-19,P158,il 21.6								
	Bharathi Theater	1	110.00	7.30		803.00			
	Excel kalyana mantapa	1	138.00	3.40		469.20			
	Basic Rate	25.00			Total	**1272.20**	27.82	sqm	35392.60
	A.W.@ 6%	1.50							
	add tender approval @4.98%	1.32							
	Total	27.82							
13	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen. SR 2018-19.P160,I 21.17.6								
	Bharathi Theater	1	110.00	7.30		803.00			
	Excel kalyana mantapa	1	138.00	7.30		1007.40			
	1st cross	1	85.00	4.50		382.50			
	2nd cross	1	116.00	5.30		614.80			
	cross	1	36.00	5.40		194.40			
	cross	1	38.00	5.40		205.20			
					Total	**3207.30**			
	road Profile correction for road					64.15			
	Bharathi Theater	1	110.00	7.30	0.05	40.15			
	Excel kalyana mantapa	1	138.00	3.40	0.05	23.46			
	1st cross	1	85.00	1.50	0.05	6.38			
	2nd cross	1	116.00	1.20	0.05	6.96			
	cross	1	36.00	1.20	0.05	2.16			
	cross	1	38.00	1.20	0.05	2.28			
	Basic Rate	5403.00			Total	**145.53**	6012.97	Cum	875073.54
	A.W.@ 6%	324.18							
	add tender approval @4.98%	299.45							
	Total	6012.97							
14	KSRRB M500-10. Providing and applying tack coat using 80/100 grade bitumen(VG10) in boiler fitted with spray set distributor at the rate of 0.20 kg per sqm on the existing prepared bituminous surface cleaned with mchancial broom. complete as per specifications. - using bitumen 80/100 on **primed surfaces SR2018-19,P159,I 21.10**								
	Bharathi Theater	1	110.00	7.30		803.00			

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	Excel kalyana mantapa	1	138.00	7.30		1007.40			
	1st cross	1	85.00	4.50		382.50			
	2nd cross	1	116.00	5.30		614.80			
	cross	1	36.00	5.40		194.40			
	cross	1	38.00	5.40		205.20			
	Basic Rate	10.00							
	A.W.@ 6%	0.60			Total	**3207.30**	11.13	sqm	35697.25
	add tender approval @4.98%	0.53							
	Total	11.13							
15	Providing and laying Bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V Revision as per IRC SP-53-2015 using 40-60 TPH capacity HMP with mechanical paver grading II Cum (30-45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) (p-171, lt 21.78.12) PWD SR 2018-19)								
	Bharathi Theater	1	110.00	7.30	0.04	32.12			
	Excel kalyana mantapa	1	138.00	7.30	0.04	40.30			
	1st cross	1	85.00	4.50	0.04	15.30			
	2nd cross	1	116.00	5.30	0.04	24.59			
	cross	1	36.00	5.40	0.04	7.78			
	cross	1	38.00	5.40	0.04	8.21			
					Total	**128.29**	7099.15	Cum	910764.00
	Basic Rate	6379.00							
	A.W.@ 6%	382.74							
	add tender approval @4.98%	353.54							
	Total	7099.15							

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	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bitumin ous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 SR2018-19,P 182 I 24.15								
	Bharathi Theater	2	110.00	0.10		22.00			
	Excel kalyana mantapa	2	138.00	0.10		27.60			
	1st cross	2	85.00	0.10		17.00			
	2nd cross	2	116.00	0.10		23.20			
	cross	2	36.00	0.10		7.20			
	cross	2	38.00	0.10		7.60			
					Total	**104.60**	477.43	sqm	49939.00
	Basic Rate	429.00							
	A.W.@ 6%	25.74							
	add tender approval @4.98%	23.78							
	Total	477.43							
17	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/sand/.kanker/moorum. KSRRB M100-1:Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 PWD SR 2018-19 (P-136, It.No. 17.1)								
						1010.00			
					Total	**1010.00**	129.98	Cum	131280.00
	Basic Rate	111.00							
	Conveying for 4Km	12.80							
	add tender approval @4.98%	6.47							
	Total	129.98							
18	Sub total								**5351933.33**
20	GST Charges 12%								**642232.00**
21	Miscellaneous & Rounding off:								**5834.67**
					Total Rs:				**6000000.00**

CERTIFICATE:

1. The work spot has been inspected and found to be necessary
2. The work spot comes under BBMP Limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on CSR of 2018-19
5. The above work is not Repeated any other grants and not in the list of completed works

Assistant Engineer
Ward No.15

Assistant Executive Engineer
T.Dasarahalli Sub-Division
Bruhat Bengaluru Mahanagara Palike

Executive Engineer
T .Dasarahalli Division
Bruhat Bengaluru Mahanagara Palike

Technically Sanctione for Rs. 53.51 lakhs/-
Rs. In words fifty three lakhs fifty one thousands only/-
Under P-3726
Job Code No. 015-20-000109
Registered as CE No. CE/D2/TS/07/2020-21 Subject to conditions contained in Enclosed Memo No CE/D2/TS/07/2020-21 Dt: 24/07/2021

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